

IAP20 Rec'd PCT/PTO 16 DEC 2005  
PATENT

## PATENT COOPERATION TREATY

Applicants : Takashi Kikukawa et al.  
Int'l Application No. : PCT/JP2004/009184  
Int'l Filing Date : June 30, 2004  
Title : OPTICAL RECORDING DISC

Docket No. : 890050.535USPC  
Date : December 16, 2005

Mail Stop PCT  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT TRANSMITTAL

Commissioner for Patents:

In accordance with 37 CFR 1.56 and 1.97 through 1.98, applicants wish to make known to the U.S. Patent and Trademark Office the references set forth on the attached Information Disclosure Statement. Copies of all the cited references are enclosed. As to any reference cited, applicants do not admit that it is "prior art" under 35 U.S.C. §§ 102 or 103, and specifically reserve the right to traverse or antedate any such reference, as by a showing under 37 CFR 1.131 or other method. Although the aforesaid references are made known to the Patent and Trademark Office in compliance with applicants' duty to disclose all information they are aware of which is believed relevant to the examination of the above-identified application, applicants believe that their invention is patentable.

Please acknowledge receipt of this Information Disclosure Statement and kindly make the cited references of record in the above-identified application.

10/561090

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Applicants believe this Information Disclosure Statement has been timely filed, however, the Director is authorized to charge any fee due by way of this Information Disclosure Statement to our Deposit Account No. 19-1090.

Respectfully submitted,

Seed Intellectual Property Law Group PLLC



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Enclosures:

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Information Disclosure Statement  
Cited References (19)

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| U.S. DEPARTMENT OF COMMERCE<br>PATENT AND TRADEMARK OFFICE<br><br><b>INFORMATION DISCLOSURE STATEMENT</b><br>(Use several sheets if necessary) | ATTY. DOCKET NO.<br>890050.535USPC    | APPLICATION NO.<br><b>10/561090</b> |
|  | APPLICANTS<br>Takashi Kikukawa et al. |                                     |
|  | FILING DATE<br>June 30, 2004          | GROUP ART UNIT                      |

## U.S. PATENT DOCUMENTS

| *EXAMINER<br>INITIAL |    | DOCUMENT NUMBER | DATE | NAME | CLASS | SUBCLASS | FILING DATE<br>IF APPROPRIATE |
|----------------------|----|-----------------|------|------|-------|----------|-------------------------------|
|                      | AA |                 |      |      |       |          |                               |
|                      | AB |                 |      |      |       |          |                               |
|                      | AC |                 |      |      |       |          |                               |

## FOREIGN PATENT DOCUMENTS

|  |    | DOCUMENT<br>NUMBER | DATE     | COUNTRY                    | TRANSLATION |    |
|--|----|--------------------|----------|----------------------------|-------------|----|
|  |    |                    |          |                            | YES         | NO |
|  | AD | 62-16193           | 01/24/87 | JP (+ Abstract in English) |             |    |
|  | AE | 63-299984          | 12/07/88 | JP (+ Abstract in English) |             |    |
|  | AF | 4-298389           | 10/22/92 | JP (+ Abstract in English) |             |    |
|  | AG | 6-243507           | 09/02/94 | JP (+ Abstract in English) |             |    |
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|  | AJ | 2001-344823        | 12/14/01 | JP (+ Abstract in English) |             |    |

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

|  |    |  |
|--|----|--|
|  | AK | Kikukawa, T., et al., "Rigid Bubble Pit Formation and Huge Signal Enhancement in Super-Resolution Near-Field Structure Disk with Platinum-oxide Layer," <i>Applied Physics Letters</i> 81(25):4697-4699.   |
|  | AL | Kim, J., et al., "50nm Signal Writing and Retrieve by PtO <sub>x</sub> Type S-RENS Disk in Blue Laser Optical System," <i>Extended Abstracts, 63<sup>rd</sup> Meeting The Japan Society of Applied Physics</i> , Abstract No. 27a-YD-4, p. 1005, September 2002. |
|  | AM | Kim, J., et al., "Super-Resolution by Elliptical Bubble Formation with PtO <sub>x</sub> and AgInSbTe Layers," <i>Applied Physics Letters</i> , 83(9):1701-1703, September 1, 2003.   |
|  | AN | Kim, J., et al., "Signal Characteristics of Super-RENS Disk at Blue Laser System," <i>Technical Digest of International Symposium on Optical Memory, Fr-J-01:264-265</i> , 2003.   |
|  | AO | Kim, J., et al., "Random Pattern Signal Characteristics of Super-RENS Disk at Blue Laser System," <i>Technical Digest of Optical Data Storage Topical Meeting</i> , pp. 273-275, 2004.   |

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|----------------------|----|-----------------|------|------|-------|----------|-------------------------------|
|                      | BA |                 |      |      |       |          |                               |
|                      | BB |                 |      |      |       |          |                               |
|                      | BC |                 |      |      |       |          |                               |
|                      | BD |                 |      |      |       |          |                               |
|                      | BE |                 |      |      |       |          |                               |
|                      | BF |                 |      |      |       |          |                               |
|                      | BG |                 |      |      |       |          |                               |
|                      | BH |                 |      |      |       |          |                               |

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|--|----|--------------------|----------|----------------------------|-------------|----|
|  |    |                    |          |                            | YES         | NO |
|  | BI | 2002-329348        | 11/15/02 | JP (+ Abstract in English) |             |    |
|  | BJ | 2004-30891         | 01/29/04 | JP (+ Abstract in English) |             |    |
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|  | BL | 2004-39177         | 02/05/04 | JP (+ Abstract in English) |             |    |
|  | BM | 2004-87073         | 03/18/04 | JP (+ Abstract in English) |             |    |
|  | BN | 2004-111004        | 04/08/04 | JP (+ Abstract in English) |             |    |
|  | BO | 2004-158134        | 06/03/04 | JP (+ Abstract in English) |             |    |

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

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|  | BP |  |
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